

## Financial Reporting and Analysis

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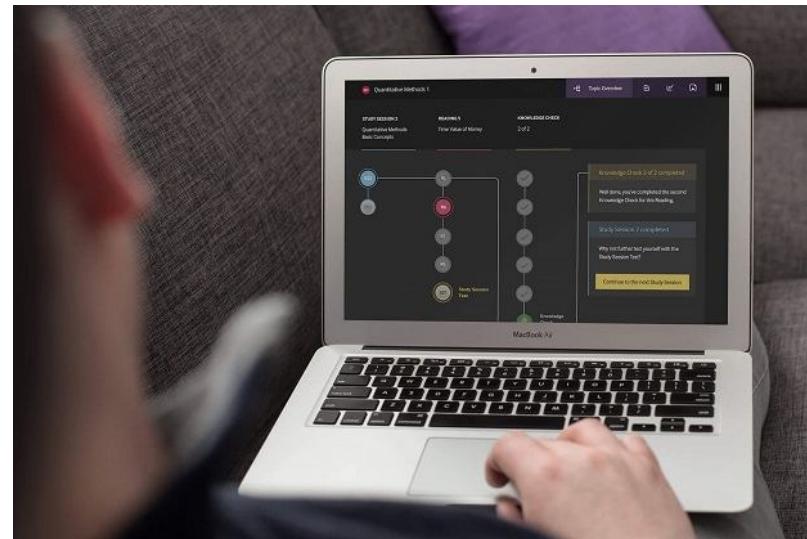
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# About Fitch Learning

Fitch Learning has more than 18 years' experience helping candidates through their CFA Program studies. Over 3,000 CFA Program candidates study with Fitch Learning every year.

- Choose from a range of **flexible classroom and online options**
- Get a **personalized learning experience** with access to our **adaptive online study** portal – Fitch Learning Cognition



# Fitch Learning Cognition

- **Study anytime and anywhere** on desktop or using the mobile app
- Receive guidance through the topics so you **know exactly what to study and when**
- **Get the support you need** from our expert instructor team via the online helpdesk

The Fitch Learning Cognition platform provides a comprehensive study environment for the Level I CFA exam. The main dashboard (left) displays the exam structure and progress metrics:

- Level I CFA® exam**
- Knowledge Checks completed:** 11
- Knowledge Checks remaining:** 64
- Readings completed:** 13
- Readings remaining:** 38
- Days until your exam:** 249

The platform is organized into four main sections:

- Ethical and Professional Standards** (10-15% of your final exam): 8/8 readings completed.
- Financial Reporting and Analysis** (15-20% of your final exam): 4/5 readings completed.
- Quantitative Methods** (5-10% of your final exam): 0/4 readings completed.
- Credit Analysis** (not explicitly shown in the dashboard but mentioned in the footer)

Each section includes a "TOPIC TREE" and "REVIEW TOPIC" button. The right screenshot shows a detailed "Your Course Progress" map with the following sections and completion status:

- ETHICAL AND PROFESSIONAL STANDARDS**: Completed (blue ribbon).
- QUANTITATIVE METHODS**: Overdue (red exclamation mark).
- EQUITY**: Overdue (red exclamation mark).
- FIXED INCOME**: Current focus (blue circle).
- ALTERNATIVE INVESTMENTS**: Overdue (red exclamation mark).
- FINANCIAL REPORTING AND ANALYSIS**: Overdue (red exclamation mark).
- ECONOMICS**: Overdue (red exclamation mark).
- DERIVATIVES**: Overdue (red exclamation mark).
- CORPORATE FINANCE**: Overdue (red exclamation mark).
- PORTFOLIO MANAGEMENT**: Overdue (red exclamation mark).

Completion dates are listed for each section: Complete by 26 January, Complete by 27 March, Complete by 11 April, Complete by 12 March, and Complete by 10 February.

# Getting ready for the Level I CFA Program exam

Make use of our review resources as you approach the end of your studies and enter the exam hall feeling confident.

- **5-Day Intensive Program**, starting 8<sup>th</sup> or 29<sup>th</sup> October
- **2-Day Classroom Review courses**, (weekday or weekend) available in November
- • **Online review** including a variety of question tools, workshops, videos and mocks:
  - Prepare for the exam
  - Strengthen your knowledge
  - Perfect your exam technique
- **Stand alone mock exams** (online and printable)

For more information, contact Steve Brady on 0207 496 8295 or email [steve.brady@fitchlearning.com](mailto:steve.brady@fitchlearning.com). Alternatively, visit [www.fitchexamprep.com/review-options](http://www.fitchexamprep.com/review-options).

# Coverage

## STUDY SESSION 6: FINANCIAL REPORTING AND ANALYSIS: AN INTRODUCTION

### Reading Assignments

**Reading 21:** Financial Statement Analysis: An Introduction

**Reading 22:** Financial Reporting Mechanics

**Reading 23:** Financial Reporting Standards

## STUDY SESSION 7: FINANCIAL REPORTING AND ANALYSIS: INCOME STATEMENTS, BALANCE SHEETS AND CASH FLOW STATEMENTS

### Reading Assignments

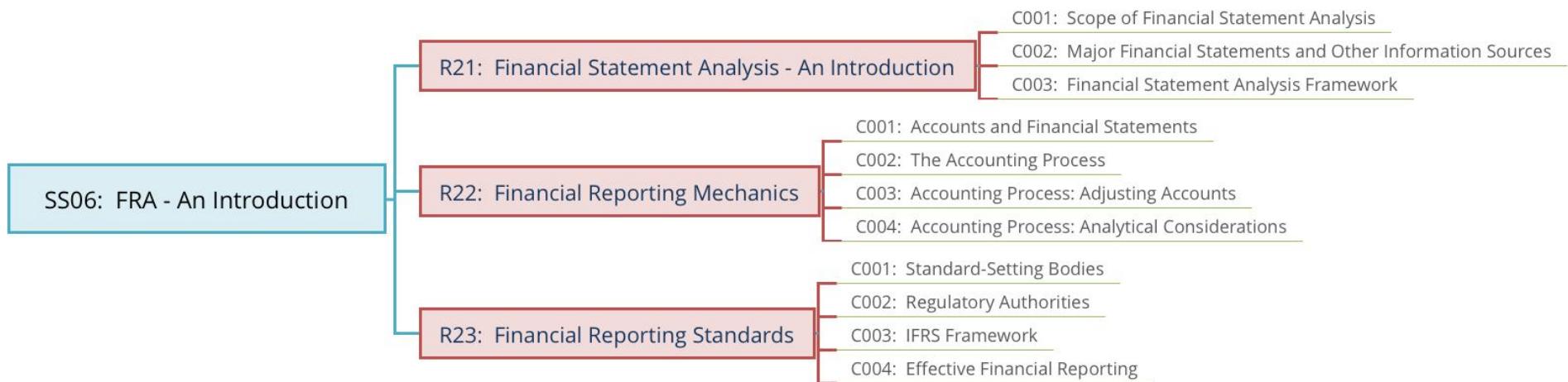
**Reading 24:** Understanding Income Statements

**Reading 25:** Understanding Balance Sheets

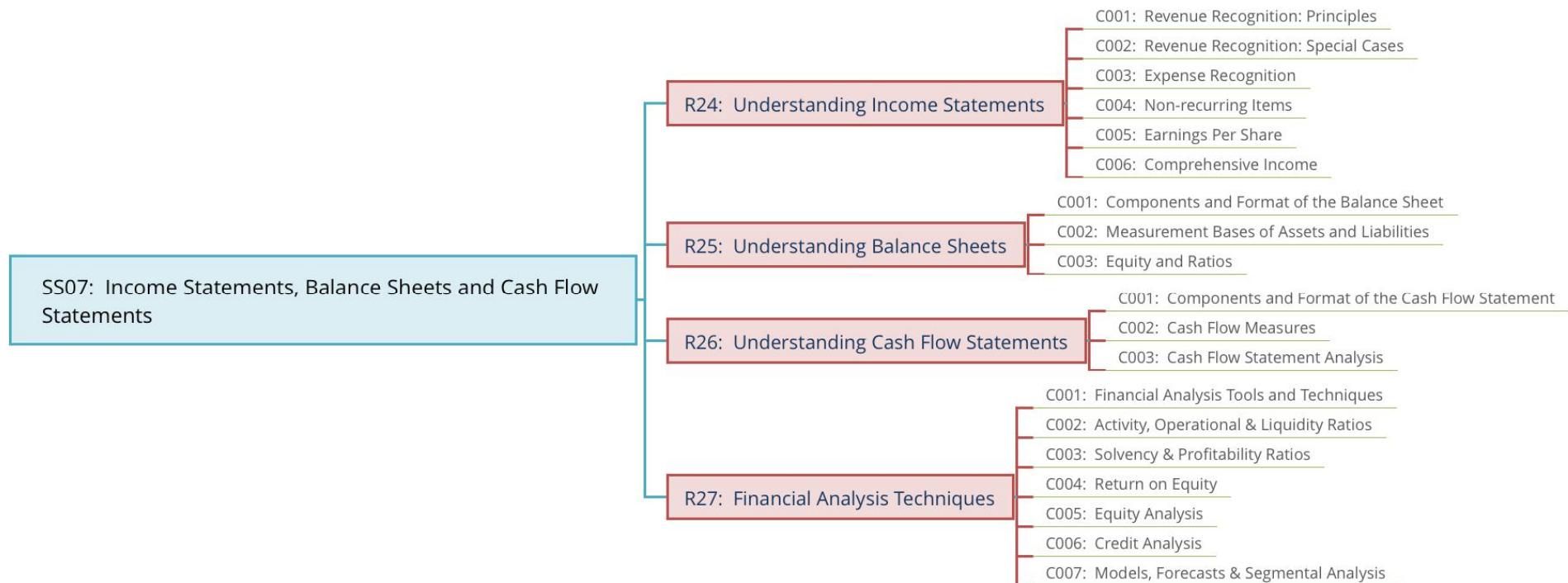
**Reading 26:** Understanding Cash Flow Statements

**Reading 27:** Financial Analysis Techniques

# SS6: FRA: An Introduction



# SS7: FRA: Income Statements, Balance Sheets and Cash Flow Statement



# Reading 21: Financial Statement Analysis: An Introduction

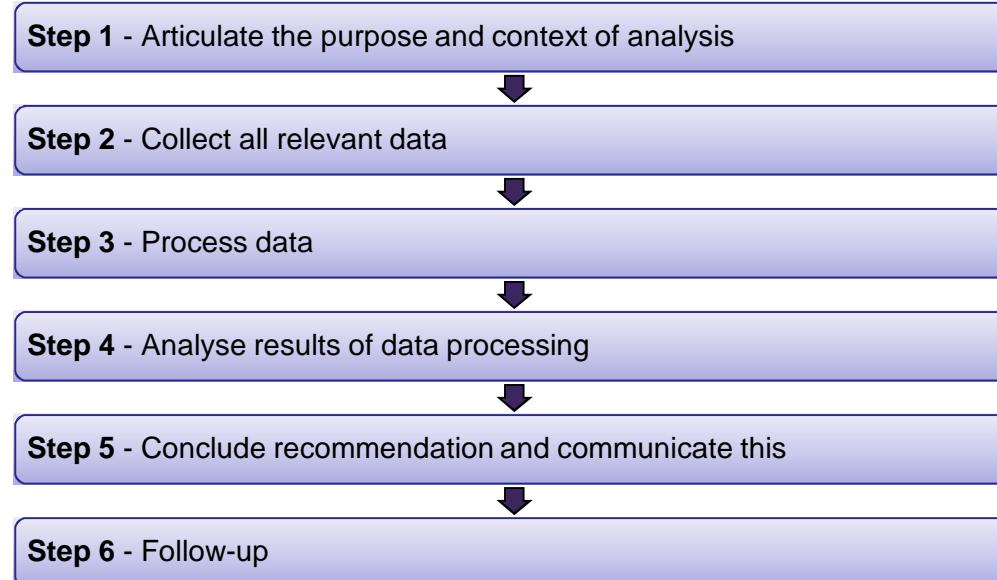
## Summary of key financial statements

- Income statement
- Balance sheet
- Statement of cash flows
- Statement of changes in owners' equity (including statement of comprehensive income)

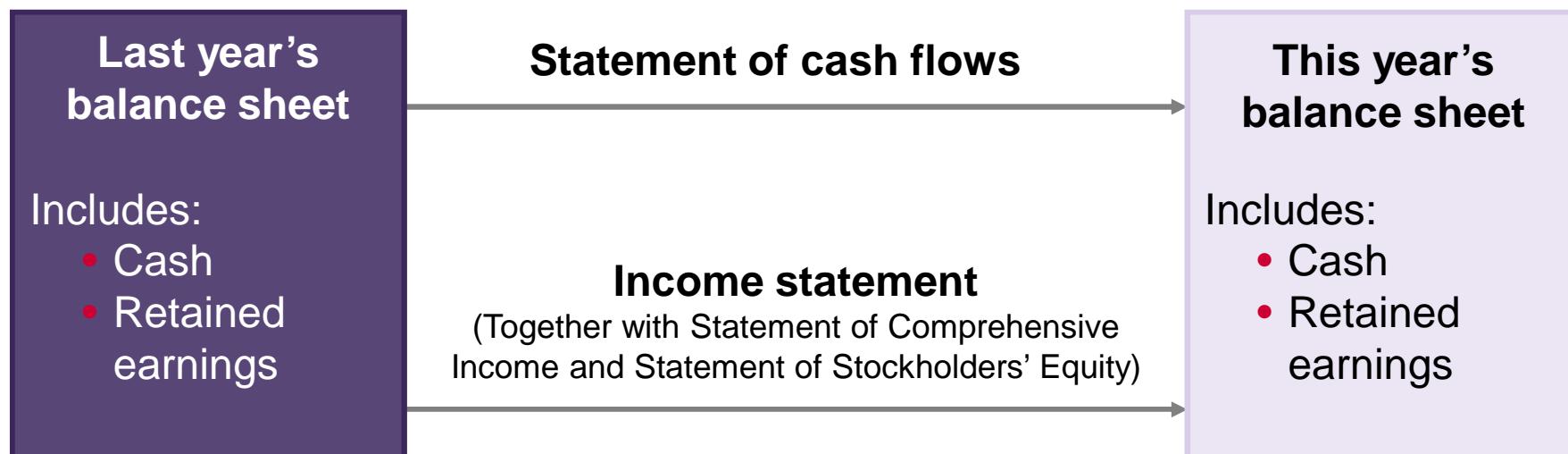
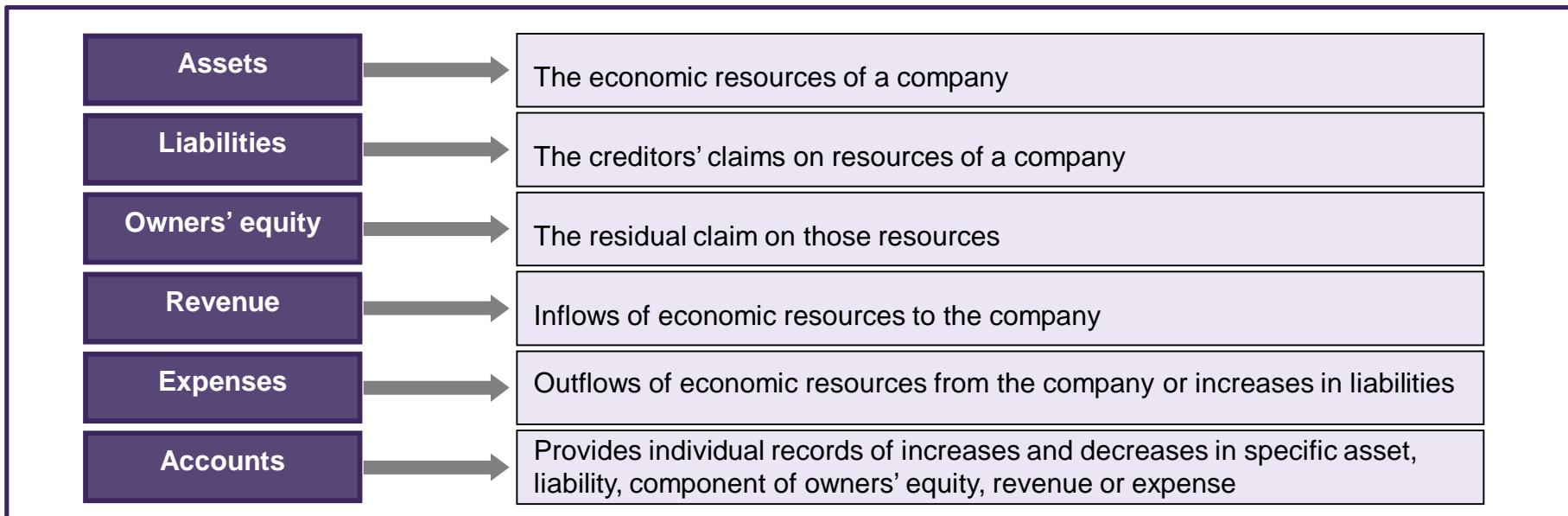
## Summary of additional information

- Footnotes and supplementary schedules
- Management's discussion and analysis (MD&A)
- External auditor's report(s)

## Steps in the Financial Statement Analysis Process



## Reading 22: Financial Reporting Mechanics



## Reading 23: Financial Reporting Standards

Required Financial Statements	Fundamental Principles	Presentation Requirements
Balance sheet	Fair presentation	Aggregation where appropriate
Income statement	Going concern	No offsetting
Statement of changes in equity	Accrual basis	Classified balance sheet
Statement of cash flows	Consistency	Minimum information on face
Accounting policies and notes	Materiality	Minimum note disclosures
		Comparative information

### Standard setters

- International Accounting Standards Board (IASB) - IFRS
- Financial Accounting Standards Board (FASB – US GAAP)

### Regulatory authorities

- US: Securities Exchange Commission (SEC)
- UK: Financial Conduct Authority (FCA) and Prudential Regulation Authority (PRA)

## Reading 24: Understanding Income Statements

### Revenue Recognition

	Percentage-of-completion	Completed contract
<b>Profit recognised</b>	Over the life of the contract	At the end of the contract
<b>Earnings</b>	Higher	Lower
<b>Assets</b>	Higher	Lower
<b>Equity</b>	Higher	Lower
<b>Approach</b>	More aggressive because profit is recognised earlier	Less aggressive

## Reading 24: Understanding Income Statements

### Earning per share (EPS)

	Calculation
<b>Basic EPS</b>	$\frac{\text{Net income} - \text{preference dividends}}{\text{Weighted average number of shares}}$
<b>Diluted EPS – convertible preference shares</b>	$\frac{\text{Net income}}{\text{Weighted average number of shares} + \text{New shares issued}}$
<b>Diluted EPS – convertible bonds</b>	$\frac{\text{Net income} - \text{preference dividends} + \text{post - tax interest saved}}{\text{Weighted average number of shares} + \text{New shares issued}}$
<b>Diluted EPS – warrants/ employee options</b>	$\frac{\text{Net income} - \text{preference dividends}}{\text{Weighted average number of shares} + \text{New dilutive shares issued}}$ $\text{Dilutive shares} = \frac{\text{Av. share price} - \text{exercise price}}{\text{Average share price}} \times \text{no. of shares issued}$

## Reading 25: Understanding Balance Sheets

### Financial Assets

	Trading securities	Available-for-sale	Held-to-maturity
<b>Balance sheet valuation</b>	Fair value	Fair value	Amortized cost
<b>Movements in fair value – unrealised gains/losses</b>	Income statement	Direct to equity – other comprehensive income	N/A
<b>Realised gains/losses</b>	Income statement	Income statement	Income statement

\$ 000s

PPE<sub>0</sub> 230

PPE<sub>t</sub> 180

$$230 - 100 - 30 + \text{New Asset} = 180$$

$\downarrow$   
80

GAIN ON DISPOSAL 15

DEP. FOR YR 100

BV of Asset disposed 30

$$\begin{array}{rcl} \text{Proceeds} & ? & - 45 \\ - \frac{\text{BV of Asset}}{\text{GAIN}} & 30 & \hline & & 15 \end{array}$$

CFI = +45 - 80

## Reading 26: Understanding Cash Flow Statements

### Organization of statement of cash flows

Cash flows from operations (CFO)

+/- Cash flow from investing (CFI)

+/- Cash flow from financing (CFF)

= **Change in cash account**

+ Beginning period cash

= Ending cash balance

### Indirect method

- Calculation of cash flows from operations (CFO)

#### **Net income**

+ Non-cash expenses

- Non-cash revenues

+ Decreases in accounts receivables/inventories

- Increase in accounts receivables/inventories

+ Increase in accounts payable/tax payable/interest payable

- Decrease in accounts payable/tax payable/interest payable

- Gain on disposal of an asset

+ Loss on disposal of an asset

= Cash flows from operations (CFO)

	US GAAP	IAS GAAP
Interest received	CFO	CFO or CFI
Interest paid	CFO	CFO or CFF
Dividends received	CFO	CFO or CFI
Dividends paid	CFF	CFO or CFF
Bank overdrafts	CFF	Considered part of cash and cash equivalents
Taxes paid	CFO	CFO but some can be allocated to CFI/CFF if appropriate
Format	Direct or indirect, reconciliation if direct is used	Direct or indirect

Ratios : LIFO v FIFO

: Sh v Accelerated

: Op. lease v Financ lease

: Capitalize v Expense

## Reading 27: Financial Analysis Techniques

### Activity ratios

365

Inv.T.

B/S + I/S or

B/S + CF

- Days of inventory on hand (DOH) =  $\frac{\text{Average inventory}}{\text{Cost of goods sold}} \times 365$
- Days of sales outstanding (DSO) =  $\frac{\text{Average receivables}}{\text{Revenue}} \times 365$
- Payables days =  $\frac{\text{Average payables}}{\text{Purchases}} \times 365$



Cash conversion cycle = DOH + DSO - Payable days

7 + 2 60

- Total asset turnover =  $\frac{\text{Revenue}}{\text{Average total assets}}$

Current ratio > 1

New transaction: Collect \$1m from receivable, & pay supplier. Current ratio will: A ↑ B ↓ C -

Receivable ↓ Cash ↑↓ Payables ↓

$$\frac{CA \downarrow}{CL \downarrow}$$

$$\frac{10}{5} = 2$$

$$\frac{9}{4} = 2.25$$

## Reading 27: Financial Analysis Techniques

### Liquidity ratios **SHORT TERM DEBT**

- Current ratio = 
$$\frac{\text{Current assets}}{\text{Current liabilities}}$$
- Quick (acid test) ratio = 
$$\frac{\text{Current assets} - \text{Inventory}}{\text{Current liabilities}}$$

### Solvency ratios **LONG-TERM DEBT**

- Debt - to - equity ratio = 
$$\frac{\text{Debt}}{\text{Equity}}$$
 
$$\frac{D}{D+E}$$
- Financial leverage ratio = 
$$\frac{\text{Average total assets}}{\text{Average total equity}}$$
- Interest cover = 
$$\frac{\text{Earnings before interest and tax(EBIT)}}{\text{Interest payments}}$$

$$\begin{array}{r}
 S \quad 200 \\
 COGS \quad (100) \\
 \hline
 EBT \quad 100
 \end{array}$$

$$\begin{array}{r}
 \text{Int 20\%} \quad (20) \\
 \hline
 EBT \quad 80
 \end{array}$$

$$\begin{array}{r}
 \text{Tax 25\%} \quad (20) \\
 \hline
 NI \quad 60
 \end{array}$$

$$\frac{NI}{EBT} \times \frac{EBT}{EBIT} \times \frac{EBIT}{S} = \frac{NI}{S} = \frac{60}{200}$$

$$\frac{60}{80} \times \frac{80}{100} \times \frac{100}{200}$$

$0.75$        $0.8$        $\times$        $\text{Op. Profit Margin}$   
 $\downarrow$        $\downarrow$        $1 - r$   
 $1 - T$

0.5

## Reading 27: Financial Analysis Techniques

### Performance ratios

Return on equity

Two-stage DuPont

Three-stage DuPont

Five-stage DuPont

$$ROE = \frac{\text{Net income}}{\text{Average shareholders' equity}}$$

$$ROE = ROA \times \text{Leverage}$$

$$= \frac{\text{Net income}}{\text{Average total assets}} \times \frac{\text{Average total assets}}{\text{Average shareholders' equity}}$$

$$ROE = \text{Net profit margin} \times \text{Asset turnover} \times \text{Leverage}$$

$$ROE = \frac{EAT}{Revenue} \times \frac{\text{Revenue}}{\text{Assets}} \times \frac{\text{Assets}}{\text{Equity}}$$

$$ROE = \frac{EAT}{EBT} \times \frac{EBT}{EBIT} \times \frac{EBIT}{REVENUE} \times \frac{\text{REVENUE}}{\text{ASSETS}} \times \frac{\text{ASSETS}}{\text{EQUITY}}$$

# Coverage

## **STUDY SESSION 8 – FINANCIAL REPORTING AND ANALYSIS: INVENTORIES, LONG-LIVED ASSETS, INCOME TAXES, AND NON-CURRENT LIABILITIES**

### **Reading Assignments**

**Reading 28:** Inventories

**Reading 29:** Long-Lived Assets

**Reading 30:** Income Taxes

**Reading 31:** Non-Current (Long-Term) Liabilities

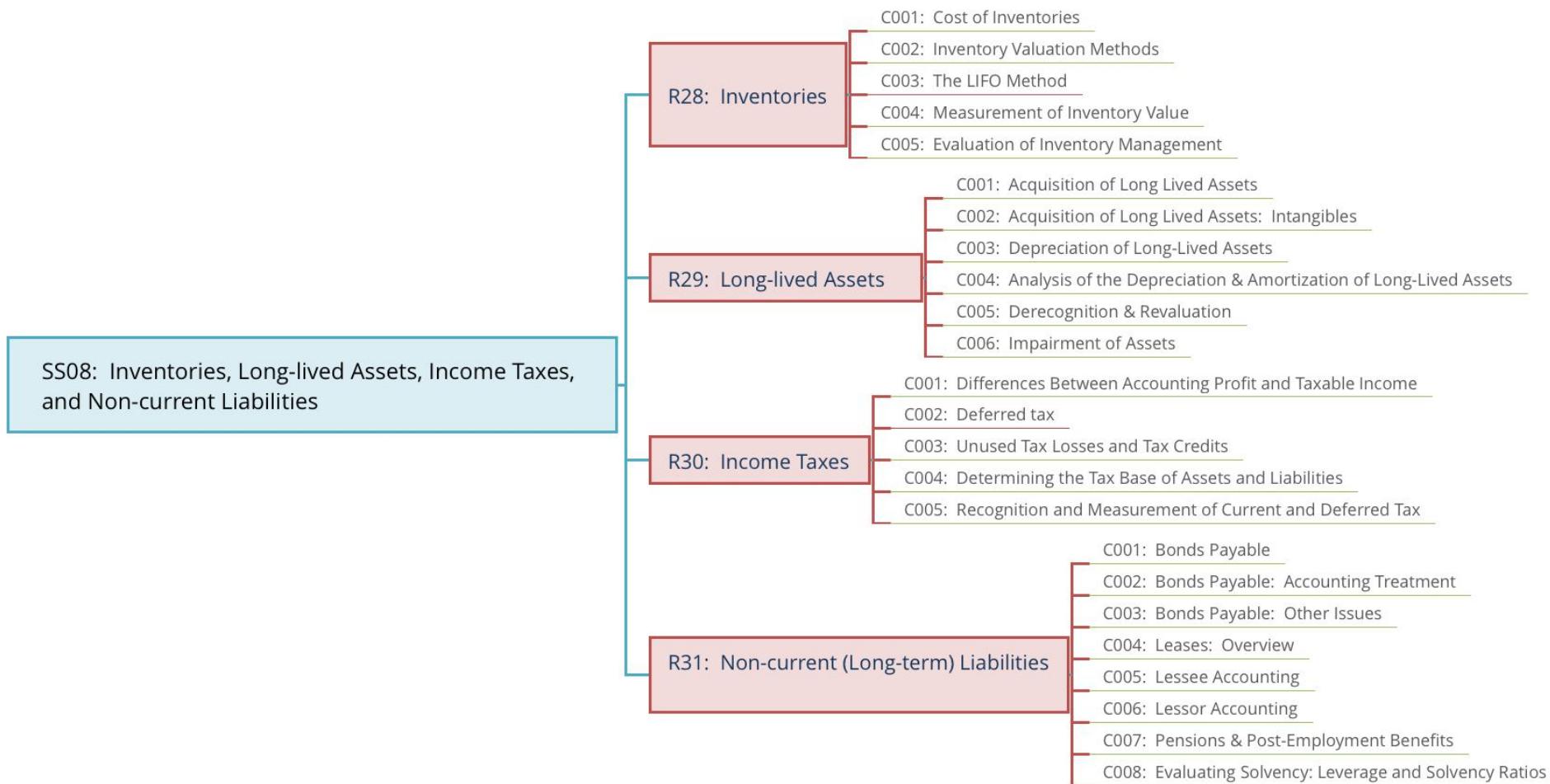
## **STUDY SESSION 9 – FINANCIAL REPORTING AND ANALYSIS: FINANCIAL REPORTING QULAITY AND FINANCIAL STATEMENT ANALYSIS**

### **Reading Assignments**

**Reading 32:** Financial Reporting Quality

**Reading 33:** Financial Statement Analysis: Applications

# SS8: FRA: Inventories, Long-lived Assets, Income Taxes, and Non-current Liabilities



# SS9: Evaluating Financial Quality And Financial Statement Analysis



Assume:  $P \uparrow$  AND stable/rising inventory levels

$\boxed{h}$   $I$   $F$   $O$

lower Inventory

lower Income

↳ Higher COGS

↳ lower Tax

↳ Higher CFO

Opening Inv  
+ Purchases  
- Closing

## Reading 28: Inventories

### Accounting for inventories and the cost of goods sold

**Beginning inventory (BI)**

+ Purchases (P)

**= Cost of goods available to sell**

- Ending inventory (EI)

**= Cost of goods sold (COGS)**

**Inventory methods:** In periods of rising prices and stable or increasing inventory levels

	FIFO	LIFO
Inventory	Higher	Lower ✓
Shareholder equity	Higher	Lower ✓
Earnings	Higher	Lower ✓
Pre-tax cash flow	Same	Same
After-tax cash flow	Lower	Higher ✓
Profit margins	Higher	Lower
Asset turnover	Lower	Higher
Current ratio	Higher	Lower
Debt to equity	Lower	Higher

S  
TA↓

### LIFO Reserve

#### Balance Sheet



#### Income Statement



#### Instructor Tip:

"When adjusting a balance sheet number use the LIFO reserve as at that point in time, for an income statement number use the CHANGE ( $\Delta$ ) in the LIFO reserve"

2nd 4 (DEPR) Sh 2nd ENTER  $\times 2$   
 $DB = 200 \downarrow$

LIF 3 E  $\downarrow$

MOI 1 E  $\downarrow$

CST 40,000 E  $\downarrow$

SAL 10,000 E  $\downarrow$

YR 1 E  $\downarrow$  YR 2 E  $\downarrow$  YR 3 E  $\downarrow$

Dep = 26,667  $\uparrow$  Dep = 3,333  $\uparrow$  Dep 0

MACHINE COST \$40,000 SCRAP \$10,000

$$UEL = 3y$$

$$Sh = \frac{\text{Net Cost}}{UEL} = \frac{40,000 - 10,000}{3} = 10,000$$

	①	②	③
BV	30,000	20,000	10,000
Dep exp.	10,000	10,000	10,000
Dep exp	26,667	3,333	0
BV	13,333	10,000	10,000

$$ROA = \frac{NI\downarrow}{TA\downarrow}$$

Sl  $\rightarrow$  DB

:	:
10,000	26,667
exp.	exp

$$BV 30,000 \quad v \quad 13,333$$

$$\frac{20}{100} \rightarrow \frac{4}{84}$$

# Reading 29: Long-Lived Assets

## Capitalising

- Where cash outflows are considered to provide benefits in the future, typically beyond one year, the spending can be capitalised
  - Decrease cash
  - Increase assets (PPE or intangibles)
- Further adjustments
  - Depreciation/amortization

## Expensing

- Where the outflow is not expected to provide a benefit for future periods the amount is deducted from Net Income in the period and therefore expensed

- Decrease cash
- Decrease equity

Where spending is expensed in the period incurred, no further charges to income are required

## Depreciation methods

- Straight line
  - Cost of asset allocated to expense evenly over its useful life

$$\text{Depreciation expense} = \frac{\text{Cost} - \text{Estimated residual (salvage) value}}{\text{Useful life (UEL)}}$$

- Accelerated methods
  - Allocation of cost is greater in earlier years
  - Double declining balance:

$$\text{Depreciation expense} = \text{Constant \%} \times \text{Undepreciated cost}$$

$$\text{Constant \%} = 2 / \text{Useful life}$$

$$\text{Undepreciated cost} = \text{Cost} - \text{Accumulated depreciation}$$

### Instructor Tip:

*"The calculator has the [DEPR] function that can calculate depreciation for you! Take a look at the calculator recording on Cognition"*

## Effect of depreciation choices on key financial ratios

- Straight line vs. accelerated methods (early years of asset life)

Variable	Straight line	Accelerated
Assets	Higher	Lower
Earnings	Higher	Lower
Shareholders' equity	Higher	Lower
Cash flow	Same	Same
Profit margin (profit/revenue)	Higher	Lower
Current ratio (CA/CL)	Same	Same
Asset turnover (revenue/assets)	Lower	Higher
Debt-to-equity (debt/equity)	Lower	Higher
Return-on-assets (NI/assets)	Higher	Lower
Return-to-equity (NI/Equity)	Higher	Lower

## Reading 29: Long-Lived Assets

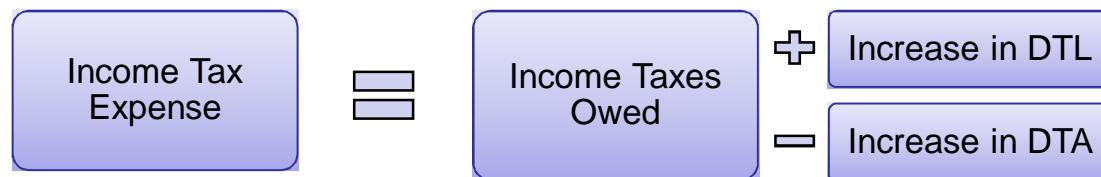
	US GAAP	IFRS
<b>Reversal of impairment of inventory</b>	Not allowed	Permitted
<b>Reversal of impairment of long-lived assets held for use</b>	Not allowed	Permitted
<b>Reversal of impairment of long-lived assets held for sale</b>	Permitted	Permitted
<b>Reversal of impairment of intangible assets other than goodwill</b>	Not allowed	Permitted
<b>Reversal of impairment of goodwill</b>	Not allowed	Not allowed
<b>Revaluation of long-lived assets</b>	Not allowed	Permitted
<b>Revaluation of goodwill</b>	Not allowed	Not allowed

# Reading 30: Income Taxes

## Differences between accounting profit and taxable income

- Permanent differences
  - Income or expenses are included in either pre-tax income or taxable income but not both
- Temporary differences
  - Income or expenses are included in both pre-tax income and taxable income but in different periods:
    - Warranty expense
    - Accounting depreciation methods vs. tax depreciation methods
    - Tax losses

## Income tax expense in income statement



### Deferred tax liabilities (DTL)

- Pre-tax income > taxable income
- Difference due to a temporary timing difference
- E.g. accelerated tax depreciation vs. accounting depreciation

### Deferred tax assets (DTA)

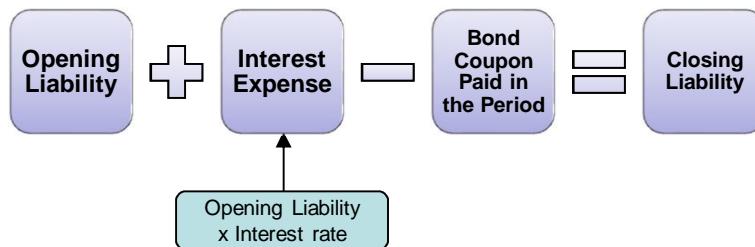
- Pre-tax income < taxable income
- E.g. accounting expenses not being recognized for tax purposes such as warranty expense
- Tax losses

Balance sheet item	Carrying amount vs. tax base	DTL/DTA
Asset	Carrying amount > tax base	DTL
Asset	Carrying amount < tax base	DTA
Liability	Carrying amount > tax base	DTA
Liability	Carrying amount < tax base	DTL

# Reading 31: Non-Current (Long-Term) Liabilities

## Accounting for bonds

- Date of issue
  - Recognize present value of liability on balance sheet
- Interest expense
  - Opening liability x Yield at date of issue
- Liability in balance sheet



- Cash flow statement
  - Coupons
    - CFO (IFRS CFO/CFF)
  - Proceeds/repayment of principal
    - CFF

## Summary

- Bonds issued at par
  - Market rate = Coupon rate
  - Interest expense = Coupon payment
- Bonds issued at a discount to par value
  - Market rate > Coupon rate
  - Interest expense > Coupon payment



- Zero-coupon bonds
  - Market rate > Coupon rate
  - Interest expense > Coupon payment
  - Interest expense = Amortization of discount
- Bonds issued at a premium to par value
  - Market rate < Coupon rate
  - Interest expense < Coupon payment



# Reading 31: Non-Current (Long-Term) Liabilities

## Finance (or capital) lease vs. operating lease

- Finance leases are recognized on balance sheet
- Operating leases are treated like a rental
  - No asset or liability recognized on balance sheet
  - Rental expense recognized in income statement

## Leases

### IFRS criteria for recognizing a finance lease

- Lease transfers ownership of asset to lessee by end of lease term, **or**
- Lessee has option to purchase asset at less than fair value, **or**
- Lease term is for major part of economic life of asset

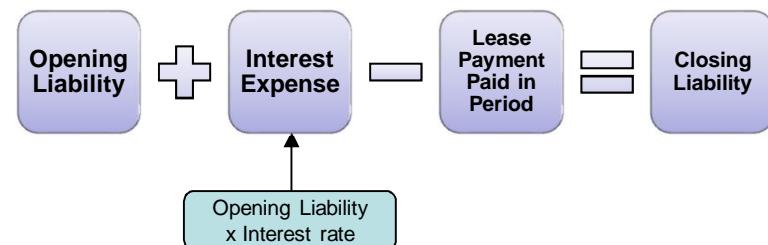
### US GAAP criteria for recognizing a finance lease

- Title transferred during the life of the lease, **or**
- Bargain purchase option (asset can be purchased at less than fair value), **or**
- Lease period **at least 75% of asset's life\***, **or**
- PV of lease payments **at least 90% of FV of asset\***
  - \*N/A to leases commencing in final 25% of asset life

Effects of using operating vs. capitalized methods (early years)	Operating lease	Capital lease
Profit margin (early years)	Higher	Lower
Profit margin (later years)	Lower	Higher
Asset turnover (revenue / assets)	Higher	Lower
Current ratio (CA/CL)	Higher	Lower
Debt / equity (debt / equity)	Lower	Higher
Return-on-assets (EAT / total assets)	Higher	Lower
Return-on-equity (EAT / equity)	Higher	Lower
Interest coverage (EBIT / I)	Higher	Lower

## Accounting for a finance lease

- Amortized cost method
  - Recognize asset and liability on balance sheet
    - Present value of minimum lease payments
  - Income statement expense
    - Depreciation of asset
    - Interest expense
      - Opening liability x Effective interest rate
  - Balance sheet



- Cash flow statement
  - Interest portion of lease payment = CFO (US) or CFF/CFF (IFRS)
  - Principal payment = CFF

### Instructor Tip:

*“You can use the [AMORT] function of the calculator to solve for the interest expense, outstanding balance and principal repayment of the finance lease. View the calculator tutorial on Cognition.”*

## Leases – Example

### Example 31.3: Accounting for leases by a lessee

The details of a lease are as follows:

- Equipment is leased for four years
- Lease payments: \$1,000 due at the end of the year
- Rate implicit in the lease: 10%
- Economic life of the asset: five years
- Current fair market value of the asset: \$3,500

Show the effect of the above lease on the financial statements:

- If it is accounted for as a finance lease
- If it is accounted for as an operating lease

# Leases – Example

Solution 31.3: Accounting for leases by a lessee

Period	Opening balance	Interest expense (income statement) @10%	Cash payment	Closing balance (balance sheet)
1	3,170	317	(1,000)	2,487
2	2,487			
3				
4				

# Leases – Example

## Operating lease

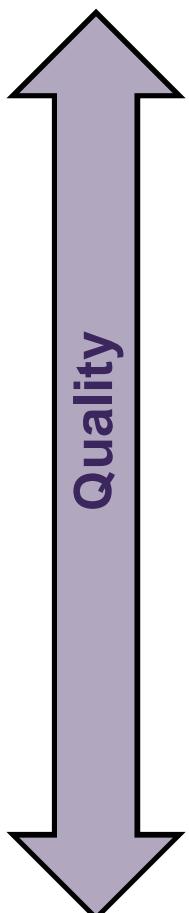
- Balance sheet
  - No asset or debt-recognized balance sheet
- Income statement
  - Operating lease rental \$1,000 p.a.

	Year 1	Year 2	Year 3	Year 4		Total
<b>Finance lease</b>						
Depreciation	793	793	792	792		3,170
Interest expense	317	249	174	90		830
<b>Total</b>	1,110	1,042	966	882		4,000
<b>Operating lease</b>	1,000	1,000	1,000	1,000		4,000

## Reading 32: Financial Reporting Quality

### Quality Spectrum of Financial Reports

Better



- GAAP, decision-useful, sustainable, and adequate returns
- GAAP, decision-useful, but sustainable?
  - Low “earnings quality”
- Within GAAP, but biased choices
- Within GAAP, but “Earnings Management”
  - Real earnings management
  - Accounting earnings management
- Departures from GAAP
- Fictitious transactions

Poorer

FINANCIAL  
REPORTING  
QUALITY  
Vs.  
EARNINGS  
QUALITY

## Reading 33: Financial Statement Analysis: Applications

### Adjustments related to property, plant and equipment

- Relationships:
  - $\text{Accumulated depreciation} / \text{Gross PPE}$  = How much of life has passed
  - $\text{Accumulated depreciation} / \text{Depreciation expense}$  = Average age of asset base
  - $\text{Net PPE} / \text{Depreciation expense}$  = How many years of UEL remain
  - $\text{Gross PPE} / \text{Depreciation expense}$  = Average life of assets at start
  - $\text{Capex} / \text{PPE} + \text{Capex}$  = % of asset base being renewed
  - Capex vs. disposals = growth of asset base

### Other Adjustments

- Restate LIFO balances to FIFO
- Remove goodwill when calculating ratios such as price-to-book value
- Capitalise operating leases
  - Increase assets and liabilities
  - Recalculate debt/equity ratio

**FitchLearning**

## Contact

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